Exhibit 31

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Page 31 1 ROUGH BY MS. KIECKEFER: 3 Good afternoon, morning good Ο. morning. Afternoon where, you are. My 4 5 name is Kieran Kieckefer and I represent 6 western digital. 7 How do you do. Α. Turning to paragraph 29 of your 8 Ο. declaration, the western district of Texas 9 10 declaration of Exhibit 1 --It's Exhibit 1, which paragraph? 11 Α. 12 29. Q. 13 Α. OK. 14 You note in paragraph 29 that a Q. 15 claim may be given a meaning that differs from the ordinary and customary meaning and 16 then you have two different scenarios. 17 18 that correct or is that a typo. Did you 19 mean a claim or did you mean a claim term? A claim term. 20 Α. I quess. 21 Q. And then you note that one can 22 depart from the plain and ordinary meaning of a claim term only in two scenarios and 23 24 those are the ones described in paragraph 25 29. Correct?

Page 47 1 ROUGH 2. a pneumatic cylinder? Α. It is OK because it's part of the 3 way he described in the specification, he 4 said it's -- he is looking at in in the he 5 6 is looking at it in a a broader way. Is it your opinion that the 7 inventor of the 651 patent intended the 8 9 terms pneumatic cylinder and hydraulic 10 cylinder to mean essentially the same 11 thing? 12 He didn't mean the same thing. Α. 13 He just said in a specification, that 14 sometimes you lose hydraulic system, 15 sometimes you use mechanical system, 16 sometimes you use a hybrid system. So he really -- he created a stage that could be 17 operated by using these various means. And 18 he specifically felt that he should mention 19 20 them because if he didn't feel you could use hydraulic, mechanical and so on, he 21 22 wouldn't have mentioned. He specifically 23 mentioned more than once. 24 When you talk about -- excuse me, 0. 25 strike that.

Page 52 1 ROUGH So we have 1078 claims that refer Ο. to pneumatic cylinders and some claims that 3 refer to rack and pinion combinations and 4 my question is whether it is your opinion 5 6 that these terms are interchangeable with 7 each other. REPORTER'S NOTE: relationship 8 9 Α. Well, I believe they be 10 interchangeable because you can have pneumatic cylinder without rack and pinion 11 and on the other scenario, you can have 12 13 rack and pinion situations. So it's not --14 they are not the same terms. 15 And you have a same opinion with Q. respect to pneumatic cylinders and 16 hydraulic cylinders that those are not the 17 same terms, correct? 18 19 They are related. You can have a Α. 20 system be a combination or hybrid to be able to move and adjust the angle of the 21 22 stage and so on. 23 Q. I guess, I don't think that 24 answered my question. My question is 25 whether pneumatic cylinders and hydraulic

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- 2 cylinders are not the same term, is that
- 3 correct?
- 4 A. They are not the same term. But
- 5 again, they are not the same term as far as
- 6 what is the meaning but as far as what the
- 7 patent said that you can use to move the
- 8 stage, you can use either hybrid or
- 9 hydraulic or pneumatic cylinder.
- 10 Q. Is it your contention, just one
- 11 follow up point, you say that in paragraph
- 12 59 of your declaration -- and I can wait
- 13 for you to go there. Eke.
- 14 Q. You said that pneumatic cylinder
- is a mechanical device used to generate a
- 16 force. Do you see that?
- 17 A. Yes.
- 18 Q. Is it your opinion a pneumatic
- 19 cylinder is a subset of the mechanical
- 20 device category?
- 21 A. Not really. Because you can see
- 22 that you can use mechanical force to
- 23 operate a pneumatic cylinder but you can
- 24 you can have a component like for example
- 25 that after you move it 234 one direction,

Page 57 1 ROUGH word in it, which is a mechanism useful in adjusting the position of the wafer stage 3 40 may be comprised of any one of a 4 variety of devices your opinion would 5 6 remain the same, that any one of the pneumatic mechanical hydraulic, 7 electromagnetic or some combination thereof 8 could be used. Is that correct? 9 10 Yes because if you look at figure Α. 2, you can see that part of it could be 11 pneumatic and part of it could be 12 mechanical. For example. 13 Turning to claim 19, which begins 14 Ο. 15 in column 12,? 16 Yeah, I have it. Α. Claim 19 requires a plurality of 17 Ο. pneumatic cylinders that are operatively 18 19 coupled to the wafer stage, correct? The plurality of pneumatic 20 Α. cylinder, yes. 21 22 So in order to meet that claim 0. limitation, you need at least two pneumatic 23 24 cylinders that are connected to the stage, 25 correct?

Page 58 1 ROUGH 2 Α. Yes. And then if you have multiple 3 0. pneumatic cylinders connected to the stage, 4 where would they be positioned relative to 5 6 the stage? 7 They are shown in figure 5, I Let me go back there. It's not 8 9 5 -- I guess it is figure, figure 3 show 10 one potential combination. It's a guess what you call a -- 49 -- well, yes, in 11 figure 3, you have a big cylinder and 12 13 inside it, you have three rectangle. And each of the rectangle would be one, it's a 14 15 top view and each of the rectangle would be 16 connected to a pneumatic cylinder. 17 So this is just one way to 18 adjust, to put them. 19 I think it's actually the bottom 0. 20 view is what the patent says? Yeah, OK, the bottom view. 21 Α. 22 yeah, but it shows where the three connect 23 to the stage. 24 Yup. And then so let's just use 0. 25 this figure 3 as an example where you have

Page 59 1 ROUGH the three pneumatic cylinders, if you extend the shaft of only one of them and 3 the other two remain in place, isn't it 4 5 correct that the stage would tilt? 6 Α. Yes, I mean yeah, assuming -they have to adjust it or make it so it 7 would be possible for it to tilt. 8 9 But it is possible that the stage Q. would tilt if you are extending the shaft 10 of only one and keeping the other two 11 roughly in place, is that correct? 12 13 Α. Yeah. 14 Q. And the only way to raise the 15 stage using that same example, the only way to raise the stage is if all of the shafts 16 of each cylinder move together and remain 17 it at the same height, is that correct? 18 19 Objection, vague. MR. PARKER: 20 Α. So can you repeat the question. 21 Q. Sure. 22 The only way to raise the stage is if all of the shafts of each cylinder 23 24 move together and remain at the same 25 height. Correct?

Page 60 1 ROUGH Same objection. MR. PARKER: This is assuming that there is no 3 Α. other way to move the stage in a vertical 4 direction or perpendicular to the page. 5 6 0. Sure, let me revise the question 7 slightly. Is one way to raise the stage the 8 scenario when all of the shafts of each 9 10 cylinder move together and remain at the same height? Would you agree with that? 11 12 That means I have to move higher Α. 13 to the starting position but the same 14 amount or the of the three shafts for it to 15 be raised by the amount to go higher by the 16 amount -- by the mount -- so can you repeat 17 the part that you have recorded. -- in the beginning it should be to move from the 18 19 starting position because I'm not sure if 20 you are saying form. 21 So if you repeat if you change it 22 now from the starting position. 23 (Record read) 24 Well, they don't have necessarily Α. even to move together but all of them has 25

Page 61 1 ROUGH to -- between the starting position, before you start moving the shaft until you finish 3 moving all of them, all of them is to move 4 5 by the same amount from the starting 6 position to the end position. 7 At paragraph 65 of your declaration, you reference electrodes, do 8 9 you see that? let me know when you're 10 there? OK, I have it. 11 Α. 12 So that's then if you turn to the Q. patent if you look at column 5 and line 20. 13 Give me a minute. 14 Α. 15 Q. Sure. 16 Α. OK. At line 20 it says in many tools 17 Ο. the wafer stage is actually an electrode 18 that is used to ground the wafer while a 19 20 plasma is created above the wafer by other 21 electrodes or coils in such tools. 22 Do you see that? 23 Α. Yes. 24 So you would agree that according 0. 25 to the specification in this scenario, it

Page 62 1 ROUGH says that the stage is an electrode, 3 correct? Α. Yes. 5 0. And it does not say that the 6 electrode adjusts the stage, correct? 7 The this sentence just defined Α. what the stage. It doesn't talk about 9 movement. 10 Correct. And that's my question. It does not say that the electrode adjusts 11 12 the stage. Correct? 13 Α. This specific sentence does not say it. 14 15 If you could turn to claim 19, Q. which is in column 12. 16 17 Α. OK. And claim 19 requires that the 18 Q. 19 pneumatic cylinders be separate components 20 from the stage, correct? 21 It says are coupled to the stage. Α. 22 Yes, I see that. Would you agree Ο. that that means that the pneumatic 23

cylinders are separate from the stage?

Well, I mean --

24

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Α.

Page 63 1 ROUGH MR. PARKER: Objection, vaque. The question what you mean by 3 Α. separated. Coupled means it is connected 4 5 to the stage. So they are not apart of the 6 whole big system, I mean. It doesn't say 7 that they are not connected to it. Yeah, let me rephrase. 8 Q. 9 With respect to claim 19, they're 10 talking about the stage and the cylinder that are connected. And my question is --11 I agree and I see that they're connected 12 13 but you will agree that they are separate 14 components that are connected, correct? 15 Α. They are separate elements that 16 are attached one another by being coupled. 17 Q. Right. 18 In paragraph 68 of your declaration? 19 20 Α. OK. 21 Q. Does that mean you're there? 22 Α. Yes. 23 Q. Great. You state that pneumatic 24 cylinders can be but need not be 25 cylindrical, do you see that?

Page 84 1 ROUGH you talk about what are the potential areas 3 it could be used for. I'm sorry, are you looking in the 4 Ο. 5 patent? 6 Α. Yes, sorry that you cannot see, 7 I'm looking --That's what I thought? 8 Q. 9 I'm looking at the column 1 and 2 Α. 10 and then starting so repeat the question. Is it your opinion that all of 11 Q. 12 the process operations that are taught by 13 the 651 patent have to occur within the 14 process chamber? 15 Α. The one that. 16 Α. Yes, they have to occur within the process chamber. 17 18 Q. OK. 19 MS. KIECKEFER: That concludes my 20 questioning, I'm going to pass the 21 torch to I believe it is Mr. Lynch. 22 Examination by thank you, Mr. Maltiel. 23 Lynne good evening, Mr. Maltiel, I'm 24 going to go ahead for a little bit since we just took a break if that's 25

Page 97 1 ROUGH 0. Again, I just want to talk about situations in which the wafer -- ex- cubes 3 me, strike that. 4 5 If faults are only defected when 0. 6 the wafer does not meet the data sheet specification, then if the data sheet -- if 7 the wafer is within the specs of the data 9 sheet, no fault would be detected, correct? 10 Α. I mean it's not accurate -- or maybe I didn't explain it enough. 11 equipment is all the time the equipment 12 13 that process the wafer is all the time 14 monitored. So you will have a situation 15 that you see the temperature fluctuate or 16 gas pressure was too high or too will he and you use this information correlated 17 with how the wafer come out at the end of 18 19 the production line to try to see which of 20 this fault that happened in the equipment caused problems that caused the wafer to 21 22 fail, not to meet the data sheet. 23 So it is sort of an interactive 24 process. 25 Understood, so if the wafer Q.

Page 98 1 ROUGH 2 hasn't failed and it's within the specifications, there would be no reason to 3 believe any fault has occurred in the tool, 4 5 correct? 6 Α. Yes, only when the wafer doesn't 7 meet specification, you can then try to pinpoint what caused -- what was the fault 8 that caused it. 9 10 So I want to now turn your attention to what's been marked --11 Let me elaborate though so that 12 Α. 13 you -- like for example, you also on test 14 wafer during lesses say deposition as a 15 process and you see that the gate come too thick, the thickness is too high or too low 16 so you don't need to wait for the end of 17 the processing to see if it conform to the 18 19 data sheet because you know it's going to 20 be defective, so you know as the end. it is as a way to monitor, it's not only at 21 22 the end of the line. 23 Understood. But in that 0. 24 situation that you just gave, even in the 25 middle of the process, it would already be

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- 2 to an actual fault do you understand that
- 3 the construction is referring to a fault
- 4 that has caused the wafer to be outside of
- 5 the specification in the data sheet?
- 6 A. Yes.
- 7 Q. So the -- another way to describe
- 8 the construction of a significant fault
- 9 proposed by plaintiffs and agreed to by you
- 10 is that a significant fault is any fault
- 11 that causes the wafer to be out of
- 12 specification from what is described in the
- 13 data sheet?
- 14 A. Yes. It's not necessarily the
- 15 full wafer but some dyes on the wafer.
- 16 Q. Right, some part of the wafer is
- 17 out of specification?
- 18 A. Yes.
- 19 Q. Isn't that -- that is simply the
- 20 same definition as a fault?
- 21 A. No, because you see that you have
- 22 a fault, the -- what happened to the
- 23 equipment, like a fault like the way we
- 24 said temperature is too high, the pressure
- 25 is out of range and this is the fault at

Page 125 1 ROUGH 2. temperature fault to be significant and not the pressure fault given that even if 3 pressure was in range, the wafer would 4 5 still be unacceptable? 6 Α. If the wafer was range for the 7 pressure but out of range for the temperature, you consider the temperature 8 9 to be the fault. 10 In my example both temperature and pressure are out of rake but the 11 temperature is so out of range it alone 12 13 would cause an issue by itself. Does that 14 make sense to you? 15 Α. Well, in such case the temperature by itself would be a 16 significant fault but even if in a case 17 18 where the temperature wouldn't be so 19 extreme but would be slightly out of range 20 and if it is slightly out of range and the pressure is out of range and it falls on 21 22 each -- then the combination is also a significant fault. 23 24 If one factor alone is enough 0.

that would be the significant fault?

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Page 126 1 ROUGH Objection. MR. PARKER: 3 Misstates. If one factor is out of range and 4 Α. the device fails, then that factor is a 5 significant fault. 6 7 I'm going to turn your attention to paragraph 84 and the chart below 8 paragraph 84 of your declaration. 9 10 OK. Α. This is a proposed construction 11 Q. 12 for the term in claim 7 so the term is 13 determining in said computer whether said 14 program is a significant factor. 15 And plaintiffs proposed alternative is the parameter that provides 16 a significant contribution to the fault. 17 18 Do you see that? 19 Α. Yes. 20 Do you agree with that Q. 21 alternative construction? 22 Α. Yes. 23 What is a parameter that provides Q. 24 a significant contribution to the fault? 25 It's like we discussed, if the Α.

Page 137 1 ROUGH to try to interpret something that is vague in the claim. Is any part of the intrinsic 0. 5 evidence more important than another part? I think the I'm not sure. 6 Α. specification are -- I mean the claim are 7 of course the most important but the specification I think are the highest 9 10 priority after the claims themself. Is it your opinion, Mr. Maltiel, 11 that if the intrinsic evidence is 12 13 unambiguous, it's appropriate to consider ex- continue sick evidence? 14 15 When you say unambiguous, you Α. don't need to consider anything, I wouldn't 16 considered ex- extrinsic -- I wouldn't 17 consider extrinsic if intrinsic is fairly 18 19 clear and not ambiguous at all. 20 Q. Accident your opinion that the intrick sick evidence of the 097 patent 21 22 defines the race ultra-thin resist? 23 Α. Yes. 24 Is it your opinion that the Ο.

specification of the 097 patent is

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Page 138 1 ROUGH unambiguous? On that point? 3 Α. Yes. If the court disagrees and finds 4 Ο. that the specification ambiguous, should 5 the court consider extrinsic evidence? 6 7 I don't know, I'm not an Α. 8 attorney. 9 MR. PARKER: Calls for a legal 10 conclusion. I cannot say to a legal 11 12 conclusion. O. Let's talk for a few minutes on 13 the doctrine of claim differentiation are 14 15 you familiar with those words? In general, again, I'm not an 16 Α. 17 attorney. Q. What is your you hadding of what 18 claim differentiation? 19 20 Α. That to try to decide what level the claim is to be different to stand on 21 22 their own. I'm sorry, madam court reporter 23 0. 24 could you read back that answer. 25 (Record read)

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- 2 ultra-thin resist is less than 2500
- 3 angstroms, did they?
- 4 A. Maybe this is why he put claim 4.
- 5 I mean I don't know the mind of the
- 6 inventor like if I say I didn't met him, I
- 7 didn't know him. I didn't interview him.
- Q. Mr. Maltiel, let's turn back to
- 9 column 1, lines 43 through what,?
- 10 A. OK.
- 11 Q. Do you see the phrase there is
- 12 considered to be?
- 13 A. Yes.
- 14 O. What do the words considered to
- 15 be mean to you as a person of ordinary
- 16 skill in the art?
- 17 A. In his experience people would
- 18 recognize it to be this thickness, but at
- 19 the same time, you want to be sure that
- 20 they know what he means.
- 21 Q. A person of ordinary skill in the
- 22 art at the time of the alleged invention,
- 23 where would you go to look for what other
- 24 people of skill in the art recognized as an
- 25 ultra-thin resist?

Page 171 1 ROUGH Α. I'll ask them. I'm basically ask the people or try to find a record of what 3 is it considered to be. 4 5 Would that include publications Ο. like in IEEE or SPIE? 6 7 I wouldn't need to if I am reading this patent it mention things like 8 3 or 4 times what it is, there are at least 9 10 twice in the figure they mention it. would be clear enough that what the 11 inventor, when he is talking about 12 13 ultra-thin resist, what he need an means. So did you consider the fact that 14 0. 15 the inventor didn't use the word is by 16 itself but used the phrase is considered to 17 be? 18 Α. I mean it's possible that he just was talking here that potentially that 19 20 maybe other people call ultra-thin resist different thicknesses but he want for 21 22 people to be clear that when he is talking in this patent of full ultra-thin resist, 23 24 it has to be less 2500 angstroms.

Wouldn't it have been clearer he

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Q.

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- 2 don't know why he didn't include.
- 3 Q. Is there any difference in your
- 4 view between using the phrase is considered
- 5 to be as opposed to just the word is? In
- 6 lines 43 through 45 of column 1 of the 097
- 7 patent?
- 8 A. There is a difference but
- 9 different people use different words in
- 10 different circumstance. So I cannot
- 11 speculate what was his reasoning to include
- 12 the word considered.
- 13 O. So I want to run back to a
- 14 question I asked you before, which was as a
- 15 person of ordinary skill in the art if you
- 16 wanted to know what other people of
- 17 ordinary skill in the art recognized as
- 18 ultra-thin resist, where would you go look?
- 19 Do you remember that question?
- 20 A. Yes.
- 21 Q. And I believe you said that you
- 22 would talk to the ear people, talk to other
- 23 people of the skill in the art, is that
- 24 correct?
- 25 A. Yes.

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- 2 that for the 248, you need 5,000 angstrom
- 3 and for the 193 nanometer, you need 4,000
- 4 angstrom.
- 5 Q. So my question is a little
- 6 different. The next sentence that talks
- 7 about the UTR thickness?
- 8 A. Um-hm.
- 9 Q. Does that apply for both 248
- 10 nanometer lithography and 193 nanometer
- 11 lithography?
- 12 A. He doesn't -- he doesn't explain
- 13 there, he doesn't define it.
- 14 Q. Let's take the case for example
- of 248 nanometer lithography to begin with.
- 16 Am I right that the patent describes that
- 17 the standard thickness is 5,000 angstroms?
- 18 A. OK.
- 19 O. And then the -- there is a
- 20 sentence at 43 lines 43 through 45, states
- 21 that under 2500 angstroms is an ultra-thin
- 22 resist. Correct?
- 23 A. OK. Yeah that's in 44, 45, yeah.
- Q. How does the patent describe a
- 25 resist with a thickness between 2500

Page 180 1 ROUGH angstroms and 5,000 angstroms for 248 nanometer lithography? 3 He is not talking about it. 4 Не is talking about a case where you use 5 ultra-thin resist. 6 7 So it's accurate to say that the patent doesn't tell you how to describe a 8 resist that has a thickness of 2500 9 10 angstroms to too 5,000 angstroms with 248 nanometer lithography? 11 12 No, no, he is talking about Α. 13 different situation when you need to use ultra-thin resist and you describe your 14 15 process that you can use it to create the 16 small dimension of lines. 17 Is my question is different. think we have established that the patent 18 describes a resist with the thickness of 19 20 under 2500 angstroms as ultra-thin and then the patent also describes for 248 nanometer 21 22 lithography that a resist of 5,000 23 angstroms is known as standard in terms of 24 its thickness, what about a resist of 4,000 25 angstroms for 248 nanometer lithography,

Page 183 1 ROUGH patent, is that photo resist standard thickness, ultra-thin thickness or some 3 other thickness? 4 5 He doesn't give it a name, 6 standard or whatever. He is just shall did-this is just a background if you want 7 to make features.5 micron are.4..5 is 8 standard photo he is resist, .4 he doesn't 9 10 gave it a name. But for my case when Iing want to make smaller features than either.5 11 or.4, you should use the ultra UTR with the 12 13 resist thickness of 2500 and depose this 14 with the hard mask and so and and you will 15 be able to produce the small dimension. Even claim 1 it starts by saying to a -- it 16 is someplace else that you make a small, 17 small as in the photo resist dimensions. 18 19 0. So I want you to focus 20 Mr. Maltiel on 193 nanometer lithography 21 for a moment. Based on the teaching of 22 this patent limb using 193 nanometer lithography and a resist as thickness of 23 24 3,000 angstroms, does that resist have a 25 standard thickness, an ultra-thin thickness

Page 184 1 ROUGH or some other thickness? Α. He doesn't define it. 3 Mr. Maltiel, did you look, in 0. 5 preparing your reports and opinions did you 6 look for any evidence as to what the patent applicant considered a resist with the 7 thickness between 2500 angstroms and 5,000 angstroms to be an ultra-thin resist for 9 10 248 nanometer lithography? 11 MR. PARKER: Objection, vague. 12 I mean I looked to see what the Α. 13 patent use and see what was defined clearly 14 in the patent and if it makes sense in the 15 device works and consider it a workable device. 16 Did you look at anything outside 17 0. 18 the patent? I looked at the as I said of 19 Α. 20 other patent and I'm familiar with the industry, I develop on many technology of 21 22 this nature, so I'm familiar with the area 23 so I blocked at some of the aspect. 24 For 248 nanometer lithography, Ο. did you find any instances where a person 25

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- either 4,000 or 5,000 angstroms of the
- 3 sentence before. Do you remember those
- 4 questions?
- 5 A. Yes, I do.
- 6 Q. For the purposes of the invention
- 7 described in the 097 patent and in
- 8 particular the claims, does it matter what
- 9 those thicknesses are called, the
- 10 thicknesses between the 2500 angstrom and
- 11 the 4 or 5,000 angstrom?
- 12 A. No, not at all. It's just a
- 13 background of the invention. They
- 14 described clearly just what the UTR
- 15 thickness and this is what the invention is
- 16 all about.
- 17 Q. And Mr. Bowen asked you a bunch
- 18 of questions about the final sentence lines
- 19 43 to 45 and focused and various times on
- 20 specific words or groups of words but when
- 21 you read that sentence in the context of
- 22 one of ordinary skill in the art, was the
- 23 sentence clear to you as to what the patent
- 24 was intending to convey to one of ordinary
- 25 skill in the art?

Page 192 1 ROUGH Yeah, it was clear. Α. Yes. 3 clear talking about UTR thickness to be ultra-thin risks Syms it is less than 2500 4 5 angstrom in thickness. 6 Ο. And then if you if you could turn to column 3, Mr. Bowen asked you some 7 questions about the first sentence on the 8 9 top of column 4, do you recall those 10 questions? 11 Α. Yes. 12 And particularly the use of the Ο. 13 term UTR layer there and whether or not it 14 should -- well, that it it doesn't 15 specifically mention less than 2500 16 angstroms, do you recall that? 17 Α. Yes. Now if you look at column 3, 18 Q. starting at line 58, there is a sentence, 19 20 it starts the present invention. 21 Α. Yes. I see. 22 In that sentence -- well, the Ο. sentence says the present invention will 23 24 now be described with respect to the

process flow of figure 3 and the

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